

**Amendments to the Claims:**

1. (original) A method of producing metal hydride misch-metal composite powders, the method comprising the steps of:

providing to a rotary flow-through electrodeposition apparatus a powder whose particles comprise one or more lanthanide alloy metals selected from the group consisting of titanium lanthanide alloy metals and nickel lanthanide alloy metals; and

electrodepositing one or more non-lanthanide metals on the powder via the apparatus.

2. (original) The method of claim 1 wherein the electrodepositing step comprises completely encapsulating the particles with the one or more non-lanthanide metals.

3. (original) The method of claim 1 wherein the electrodepositing step comprises only partially encapsulating the particles with the one or more non-lanthanide metals.

4. (original) The method of claim 1 additionally comprising the step of electrodepositing crystalline catalytic elements after the step of electrodepositing one or more non-lanthanide metals.

5. (original) The method of claim 4 wherein the step of electrodepositing crystalline catalytic elements comprises electrodepositing one or more noble metals.

6. (original) The method of claim 5 wherein the step of electrodepositing crystalline catalytic elements comprises electrodepositing one or more of palladium and platinum.

7. (original) The method of claim 1 wherein in the electrodepositing step the one or more non-lanthanide metals comprises one or more of nickel, copper, tin, and zinc.

Claims 8-14 (canceled)